

L Number	Hits	Search Text	DB	Time stamp
1	3	klee-george-g-.in.	USPAT; US-PGPUB	2003/08/26 14:09
2	158615	calibrat\$3	USPAT; US-PGPUB	2003/08/26 14:09
3	7	calibrat\$3 same (control adj pool\$1).	USPAT; US-PGPUB	2003/08/26 14:11
4	17846	calibrat\$3 same (analyzer\$1 or instrument\$1)	USPAT; US-PGPUB	2003/08/26 14:12
5	171	((calibrat\$3 same (analyzer\$1 or instrument\$1)) same (tolerance	USPAT; US-PGPUB	2003/08/26 14:12
6	18	((calibrat\$3 same (analyzer\$1 or instrument\$1)) same (tolerance)) same limit\$1	USPAT; US-PGPUB	2003/08/26 14:20
8	2859	(calibrat\$3 same (analyzer\$1 or instrument\$1)) and (422/\$.ccls. or 436/\$.ccls. or 435/\$.ccls.)	USPAT; US-PGPUB	2003/08/26 14:23
9	16	((calibrat\$3 same (analyzer\$1 or instrument\$1)) and (422/\$.ccls. or 436/\$.ccls. or 435/\$.ccls.)) and (tolerance adj limit\$1)	USPAT; US-PGPUB	2003/08/26 14:32
10	124	calibrat\$3 same (tolerance adj limit\$1)	USPAT; US-PGPUB	2003/08/26 14:32
11	0	(calibrat\$3 same (tolerance adj limit\$1)) same pool\$1	USPAT; US-PGPUB	2003/08/26 14:33
12	0	(control adj pool) adj data	USPAT; US-PGPUB	2003/08/26 14:33
13	15	(calibrat\$3 same (tolerance adj limit\$1)) and (422/\$.ccls. or 436/\$.ccls. or 435/\$.ccls. or 702/\$.ccls.)	USPAT; US-PGPUB	2003/08/26 14:35
14	14	((calibrat\$3 same (tolerance adj limit\$1)) and (422/\$.ccls. or 436/\$.ccls. or 435/\$.ccls. or 702/\$.ccls.)) not (((calibrat\$3 same (analyzer\$1 or instrument\$1)) and (422/\$.ccls. or 436/\$.ccls. or 435/\$.ccls.)) and (tolerance adj limit\$1))	USPAT; US-PGPUB	2003/08/26 14:46
15	736	calibrat\$3 and (tolerance adj limit\$1)	USPAT; US-PGPUB	2003/08/26 14:46
16	56	(calibrat\$3 and (tolerance adj limit\$1)) and clinical	USPAT; US-PGPUB	2003/08/26 14:47
17	38	((calibrat\$3 and (tolerance adj limit\$1)) and clinical) and patient\$1	USPAT; US-PGPUB	2003/08/26 14:47
18	12	((calibrat\$3 and (tolerance adj limit\$1)) and clinical) and patient\$1 and pool\$3	USPAT; US-PGPUB	2003/08/26 14:47

# WEST Search History

DATE: Tuesday, August 26, 2003

Set Name Query  
side by side

Hit Set  
Count Name  
result set

*DB=JPAB,EPAB,DWPI,TDBD;  
PLUR=YES; OP=ADJ*

L12	L11 and limit\$1	6	L12
L11	l9 and tolerance	46	L11
L10	L9 and pool\$1	4	L10
L9	l2 and (instrument\$1 or analyzer\$1)	5670	L9
L8	L7 and l2	1	L8
L7	control adj pool\$1	67	L7
L6	l3 not l5	20	L6
L5	L3 and control\$1	9	L5
L4	L3 and pool\$1	0	L4
L3	L2 and (tolerance adj limit\$1)	29	L3
L2	calibrat\$3	68472	L2
L1	kleee-g-\$.in.	5	L1

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(FILE 'HOME' ENTERED AT 13:34:35 ON 26 AUG 2003)

FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 13:35:13 ON 26 AUG 2003

E KLEE GEORGE G/AU

L1 124 S E3  
L2 0 S L1 AND CALIBRAT?  
L3 7 S L1 AND TOLERANCE  
L4 3 DUP REMOV L3 (4 DUPLICATES REMOVED)  
L5 24418 S CALIBRAT? AND (ANALYZER? OR INSTRUMENT?)  
L6 0 S L5 AND CONTROL POOL  
L7 5 S L5 AND CONTROL POOL?  
L8 4 DUP REMOV L7 (1 DUPLICATE REMOVED)  
L9 0 S CONTROL POOL DATA  
L10 90 S CALIBRAT? AND TOLERANCE LIMIT?  
L11 0 S L10 AND POOL?  
L12 13 S L10 AND (ANALYZER? OR INSTRUMENT?)  
L13 12 DUP REMOV L12 (1 DUPLICATE REMOVED)  
E KLEE GEORGE/AU  
L14 29 S E3  
L15 0 S L14 AND CALIBRAT?  
L16 4 S L1 AND TOLERANCE LIMIT?  
L17 2 DUP REMOV L16 (2 DUPLICATES REMOVED)  
L18 0 S L1 AND CONTROL POOL?  
L19 0 S L14 AND CONTROL POOL?  
L20 2 S L14 AND TOLERANCE LIMIT?  
L21 2 S L20 NOT L17

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
AN 1993:577095 CAPLUS  
DN 119:177095  
TI **Tolerance limits** for short-term analytical bias and  
analytical imprecision derived from clinical assay specificity  
AU **Klee, George G.**  
CS Dep. Lab. Med. Pathol., Mayo Clin., Rochester, MN, 55905, USA  
SO Clinical Chemistry (Washington, DC, United States) (1993), 39(7), 1514-18  
CODEN: CLCHAU; ISSN: 0009-9147  
DT Journal  
LA English  
AB A method is proposed for defining **tolerance limits** for  
assay bias and assay imprecision, based on the effects of these  
**tolerance limits** on the clin. specificity of the assay.  
An anal. "error budget" is defined as the squared sums of the imprecision  
and bias errors. The max. limit for this error budget is set at a value  
corresponding to a 50% increase in the false-pos. rate for classifying  
healthy subjects. For Gaussian distributions with  $\pm 2$  SD used as  
decision limits, this error budget equates to 0.45 SD of combined  
within-person and between-person biol. variation (SDBiol). To provide  
reasonable power for bias detection in an assay, it is recommended that  
the SD of the assay be kept at less than half the bias limit. Then, for  
the Gaussian distribution, the max. bias limit should be  $<0.36$  SDBiol and  
the SD of the assay should be  $<0.18$  SDBiol. Procedures are provided for  
using the same principles to define **tolerance limits**  
for decision limits other than  $\pm 2$  SD and for nongaussian distributions.

L21 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1997:290959 BIOSIS  
DN PREV199799590162  
TI A conceptual model for establishing **tolerance limits**  
for analytic bias and imprecision based on variations in population test  
distributions.  
AU **Klee, George**  
CS 360 Hilton Building, Mayo Clinic, 200 First Street SW, Rochester, MN 55905  
USA  
SO Clinica Chimica Acta, (1997) Vol. 260, No. 2, pp. 175-188.  
ISSN: 0009-8981.  
DT Journal; Article  
LA English  
AB A conceptual model is proposed for defining analytic bias limits utilizing  
the variations found in cumulative test value distributions. The model is  
based on the propositions that changes in analytic bias are more important  
than analytic imprecision in medical diagnoses and that analytic bias  
alters clinical specificity more than clinical sensitivity. The rationale  
for these propositions are presented along with a step-by-step procedure  
for estimating bias **tolerance limits**. These concepts  
are illustrated with an example using prostate-specific antigen. A second  
protocol is provided to define analytic imprecision **tolerance**  
**limits**, based on the quality control performance characteristics  
required to maintain the bias **tolerance limits**. This  
model can be applied to most chemistry, immunoassay, and hematologic  
quantitative assays. The relationship of this procedure to the published  
procedures using biologic variation for defining analytic  
**tolerance limits** is discussed.

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